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. FENT COOPERATION TREA

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office

Box PCT Washington, D.C.20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)
07 February 2000 (07.02.00)

in its capacity as elected Office

International application No. PCT/HU98/00054

Applicant's or agent's file reference 13199 KB

International filing date (day/month/year) 05 June 1998 (05.06.98) Priority date (day/month/year)

Applicant

KÓTAY NAGY, Péter et al

	05 January 2000 (05.01.00)		
in a notice effecting later	election filed with the International Bureau on:		
		 	
The election X was		ı	
was not v			
	9 months from the priority date or, where Rule 32	applies, within the tin	ne limit under
made before the expiration of	; 19 months from the priority date or, where Rule 32	applies, within the tin	ne limit under
made before the expiration of	9 months from the priority date or, where Rule 32	applies, within the tin	ne limit under ,

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PATENT COOPERATION TRE

1889 DEC 28 PCT/HU98/00054

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

ADVOPATENT Office of Patent and Trademark Attorneys P.O. Box 11 H-1251 Budapest HONGRIE

Date of mailing (day/month/year)

16 December 1999 (16.12.99)

Applicant's or agent's file reference

13199 KB

IMPORTANT NOTICE

International application No. PCT/HU98/00054

International filing date (day/month/year)

05 June 1998 (05.06.98)

Priority date (day/month/year)

Applicant

EGIS GYÓGYSZERGYÁR RT. et al.

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AU,CN,EP,IL,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Uffices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CU,CZ,DE,DK,EA,EE,ES,FI,GB,GE,GH,GM,GW,ID,IS, KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SF,SG,SL

SK,SL,TJ,TM,TR,TT,UA,UG,UZ,VN,YU,ZW
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Burgau on 16 December 1929 (16.12.99) under No. WO 99/64402

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international proliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, shemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

form PCT/IB/308 (July 1996)

3003105

The demand must be filed directly with	mpetent International Preliminary Examining Au	y or, if two or more Authorities are competent
with the one chosen by the applicant. Th	ie full name or two-letter code of that Authority may be	indicated by the applicant on the line below:

IPEA/		
IF F.A.	 	

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For	r International Preliminar	ry Examining Authorit	y use only
	•		
Identification of IPEA		Date of receipt of D	EMAND
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	LAPPLICATION	Applicant's or agent's file reference 13199 KB
International application No. PCT/HU98/00054	International filing date 05 June 1998 ((Earliest) Priority date (day/month/year)
Title of invention PROCESS FOR THE PREPARAT	IUN UF A 3/2H/-F DERIVATI		SUBSTITUTED AMINO-5-CHLORO-
Box No. II APPLICANT(S)			
Name and address: (Family name followed by a The address must include p EGIS GYÓGYSZERGYÁR RI.	ziven name; for a legal entity, f postal code and name of coun	full official designation. try.)	Telephone No.:
Budapest, Keresztúri út 3 Hungary	30-38., H-1106		Facsimile No.:
			Teleprinter No.:
State (that is, country) of nationality: Hungary		State (that is, country	y) of residence: Hungar y
Name and address: <i>(Family name followed by g</i> KÓTAY NAGY, Péter Vác, Nagymező u. 73., H-2 Hungary		ull official designation. The	e address must include postal code and name of country.)
State (that is, country) of nationality: Hungary		State (that is, country	y) of residence: Hungary
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) SIMIG, Gyula Budapest, Hollósy Simon u. 25., H-1126 Hungary			
State (that is, country) of nationality: Hungary		State (that is, country	y)ofresidence: Hungar y
X Further applicants are indicated on	a continuation sheet.		

International application No. PCT/HU98/00054

Continuation of Box No. II APPLICANT(S)	
If none of the following sub-boxes is used,	, this sheet should not be included in the demand.
Name and address: (Family name followed by given name; for a legal ent	tity, full official designation. The address must include postal code and name of country,
BARKÓCZY, József Budapest, Szirom u. 4-6/B., H-1016 Hungary	
•	
State (that is, country) of nationality:	State (that is, country) of residence:
Hungary	Hungary
Name and address: (Family name followed by given name; for a legal ent SZTRUHÁR, Ilona Budapest, Vak Bottyán u. 3., H-1191 Hungary	tity, full official designation. The address must include postal code and name of country,
	· · .
State (that is, country) of nationality: Hungary	State (that is, country) of residence: Hungary
Name and address: (Family name followed by given name; for a legal ent BALÁZS, László	tity, full official designation. The address must include postal code and name of country.)
Budapest, Baross u. 38., H-1088 Hungary	
i	
State (that is, country) of nationality:	State (that is, country) of residence:
Hungary	Hungary
Name and address: (Family name followed by given name; for a legal end DUMÁN, Imre Budapest, Mohács u. 18/B., H-1135 Hungary	uity, full official designation. The address must include postal code and name of country.)
	Source Charles and Source Charles
State (that is, country) of nationality: Hungary	State (that is, country) of residence: Hungar y
X Further applicants are indicated on another continuation	shcet.

Continuation of Box No. II APPLICANT(S)	
If none of the following sub-boxes is used	d, this sheet should not be included in the demand.
Name and address: (Familyname followed by given name; for a legal en GREFF, Zoltán Budapest, Gyöngyvirág u. 8., H-1028 Hungary	ntity full official designation. The address must include postal code and name of country.)
State (that is, country) of nationality: Hungary	State (that is, country) of residence: Hungary
Name and address: (Family name followed by given name; for a legal en RÁTKAI, Zoltán Budapest, Morvai u. 19., H-1101 Hungary	ntity, full official designation. The address must include postal code and name of country,
State (that is, country) of nationality: Hungar y	State (that is, country) of residence: Hungary
Name and address: (Family name followed by given name; for a legal en SERES, Péter Budapest, Rädda Barnen u. 6., H-1153 Hungary	ntity full official designation. The address must include postal code and name of country.)
State (that is, country) of nationality: Hungary	State (that is, country) of residence: Hungary
	ntity, full official designation. The address must include postal code and name of country,
State (that is, country) of nationality: Hungary	State (that is, country) of residence: Hungary
Further applicants are indicated on another continuation	n sheet.

Sheet No. .4.

International application No. PCT/HU98/00054

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The following person is X agent common representative			
and X has been appointed earlier and represents the applicant(s) also for international preliminary examination.			
is hereby appointed and any earlier appointment of (an) agent(s)/common represe	ntative is hereby revoked.		
is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) (36-1) 201-1528			
ADVOPATENT Office of Patent and Trademark Attorneys Budapest, P.O.Box 11, H-1251 Hungary	Facsimile No.: (36-1) 201-1692 Teleprinter No.:		
Address for correspondence: Mark this check-box where no agent or common r space above is used instead to indicate a special address to which correspondence	epresentative is/has been appointed and the should be sent.		
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION			
Statement concerning amendments:*			
1. The applicant wishes the international preliminary examination to start on the basis of	·		
the international application as originally filed			
the description X as originally filed			
as amended under Article 34			
the claims X as originally filed			
as amended under Article 19 (together with any accompanying statement)			
as amended under Article 34			
the drawings as originally filed			
as amended under Article 34			
2. The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.			
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This checkbox may be marked only where the time limit under Article 19 has not yet expired.)			
* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.			
Language for the purposes of international preliminary examination: Eng	Language for the purposes of international preliminary examination: English		
which is the language in which the international application was filed.			
which is the language of a translation furnished for the purposes of international search.			
which is the language of publication of the international application.	İ		
which is the language of the translation (to be) furnished for the purposes of international preliminary examination.			
Box No. V ELECTION OF STATES			
The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT)			
excluding the following States which the applicant wishes not to elect:			

Sheet No		International application No. PCT/HU98/U0054		
Box No. VI CHECK LIST				
The demand is accompanied by the following ele Box No. IV, for the purposes of international pro-	ments, in the l	anguage referred to in mination:		ional Preliminary Authority use only
translation of international application	:	sheets		
2. amendments under Article 34	:	shects		\Box
copy (or, where required, translation) of amendments under Article 19	:	sheets		6.1
copy (or, where required, translation) of statement under Article 19	:	sheets		
5. letter	:	sheets		
6. other (specify)	:	sheets		
1.				
KARÁCSONYI, Béla Patent Attorney		•		•
For Internation	onal Prelimina	ary Examining Authority u	se only	
Date of actual receipt of DEMAND:				
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				
3. The date of receipt of the demand is A from the priority date and item 4 or 5	FTER the exp , below, does	oiration of 19 months not apply.	The applica informed ac	nt has been coordingly.
4. The date of receipt of the demand is Rule 80.5.	WITHIN the	period of 19 months from	n the priority date a	as extended by virtue of
5. Although the date of receipt of the de is EXCUSED pursuant to Rule 82.	mand is after	the expiration of 19 month	ns from the priority	date, the delay in arrival

- For International Bureau use only

See Notes to the demand form

Demand received from IPEA on:

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

	For International Preliminary Examining Authority use only
International application No. PCT/HU98/00054	<u> </u>
Applicant's or agent's 13199 KB file reference	Date stamp of the IPEA
Applicant EGIS GYÓGYSZERGYÁR RI. et al. Budapest, Keresztúri út 30-38.,	H-1106, Hungary
Calculation of prescribed fees	
1. Preliminary examination feeEUR	1533 P
2. Handling fcc (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)	148 H
3. Total of prescribed fees Add the amounts entered at P and H EUR and enter total in the TOTAL box	1681 TOTAL
Mode of Payment	
authorization to charge deposit cash	
chcque	stamps
postal money order coupons	s .
bank draft other (s _j	pecify):
(this check-box may be marked on	be available at all IPEAs) e total fees indicated above to my deposit account. ly if the conditions for deposit accounts of the IPEA so permit) is hereby ency or credit any overpayment in the total fees indicated above to
Deposit Account Number Date (day/month/year)	Signature

PCT

REQUEST

	For receiving Office use only
International A	pplication No.
International F	iling Date
•	
Name of receiv	ing Office and "PCT International Application"

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office	ee and "PCT International Application"
	Applicant's or agent's fi	
Box No. I TITLE OF INVENTION PROCESS FOR THE PREPARATION OF A 3/2H/ -CHLORO-DERIVATIVE	1	i
Box No. II APPLICANT		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of residence.	ntity, full official designation. f the address indicated in this nce is indicated below.)	This person is also inventor.
EGIS GYÓGYSZERGYÁR RT.		Telephone No.
Budapest, Keresztúri út 30–38., H–1106		j^{3}
Hungary	-	Facsimile No.
		Teleprinter No.
State (i.e. country) of nationality:	State (i.e. country) of r	l esidence:
Hungary	Hungary	
This person is applicant for the purposes of: all designated the United States		e United States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	ER) INVENTOR(S)	
Name and address: (Family name followed by given name: for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of resident KÓTAY NAGY, Péter	uity, full official designation. the address indicated in this ce is indicated below.)	This person is: applicant only
Vác, Nagymező u. 73., H-2600		X applicant and inventor
Hungary	·	inventor only (If this check-box. is marked, do not fill in below.)
State (i.e. country) of nationality:	State (i.e. country) of re	sidence:
Hungary	Hungary	
	ites of America	United States the States indicated in the Supplemental Box
X Further applicants and/or (further) inventors are indicated on	a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE;		ORRESPONDENCE
The person identified below is hereby/has been appointed to act on of the applicant(s) before the competent International Authorities as	s: 🔼 🌯	ent common representative
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of c	ity, full official designation.	Telephone No.
ADVOPATENT		(36-1) 201-1528
Office of Patent and Trademark Attorney	'S	Facsimile No.
Budapest, P.O.Box 11, H-1251		(36-1) 201-1692
Hungary		Teleprinter No.
Mark this check-box where no agent or common representative indicate a special address to which correspondence should be seen as the correspondence of the correspondence should be seen as the correspondence of the corres	e is/has been appointed a	nd the space above is used instead to
Form PCT/RO/101 (first sheet) (January 1997; reprint January 1998)	See Notes to the request form

Sheet No.	o2	<u> </u>	
Continuation of Box No. III FURTHER APPLICANTS AI	ND/OR (FURTHE	R) INVENTORS	
If none of the following sub-boxes is used, this sheet is not to be included in the request.			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of resident SIMIG, Gyula Budapest, Hollósy Simon u. 25., H-1126 Hungary	uity, full official design the address indicated ice is indicated below.	antion. in this This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)	
State (i.e. country) of nationality: Hungary	State (i.e. country, Hungary) of residence:	
This person is applicant all designated for the purposes of:	States excent	the United States the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name: for a legal entitle address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if to State of residence BARKÓCZY, József Budapest, Szirom u. 4-6/B., H-1016 Hungary	tity, full official design the address indicated i ce is indicated below:)	This person is: applicant only X applicant and inventor inventor only (If this check-box is marked, do not fill in below.)	
State (i.e. country) of nationality: Hungary	State (i.e. country) Hungary	of residence:	
This person is applicant for the purposes of: all designated the United States all designated the United States		the United States the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name: for a legal entitle address must include postal code and name of country. The country of the Box is the applicant's State (i.e. country) of residence if no State of residence SZTRUHÁR, Ilona Budapest, Vak Bottyán u. 3., H-1191 Hungary	ity, full official designa he address indicated ir e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)	
State (i.e. country) of nationality:	State (i.e. country)	of residence:	
Hungary This person is applicant.	Hungary	- d V - 10 d - C d - d d	
This person is applicant all designated all designated the United States Name and address: (Family name followed by given name: for a legal entitle of the United States)	es of America		
Name and address: (Family name followed by given name; for a legal enti. The address must include postal code and name of country. The country of the Box is the applicant's State (i.e. country) of residence if no State of residence BALÁZS, László Budapest, Baross u. 38., H-1088 Hungary	,,, ju ogjetut designut e address indicated in e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)	
State (i.e. country) of nationality: Hungary	State (i.e. country) of Hungary	of residence:	
This person is applicant all designated all designated for the purposes of:	States except	the United States the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on	another continuation	on sheet.	

Sheet	No	3	

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTORS					
If none of the following sub-boxes is used, this sheet is not to be included in the request.					
Name and address: (Family name followed by given name: for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of residen	tity, full official designation. the address indicated in this tce is indicated below.) This person is:				
DOMÁN, Imre	applicant only				
Budapest, Mohács u. 18/B., H-1135	Applicant and inventor				
Hungary	inventor only (If this check-bax				
	is marked, do not fill in below.)				
State (i.e. country) of nationality: Hungary	State (i.e. country) of residence: Hungary				
	States except the United States the States indicated in				
	ttes of America X of America only the Supplemental Box				
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of a Box is the applicant's State (i.e. country) of residence if 10 State of residence	ity, full official designation. the address indicated in this This person is:				
GREFF, Zoltán	applicant only				
Budapest, Gyöngyvirág u. 8., H-1028	applicant and inventor				
Hungary -	inventor only (If this check-box				
	is marked, do not fill in below.)				
San (
State (i.e. country) of nationality: Hungary	State (i.e. country) of residence: Hungary				
This person is applicant all designated all designated for the purposes of:					
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of to Box is the applicant's State (i.e. country) of residence if no State of residence	iry, full official designation. he address indicated in this e is indicated below.) This person is:				
RÁTKAI, Zoltán	applicant only				
Budapest, Morvai u. 19., H–1101	y applicant and inventor				
Hungary	inventor only (If this check-box				
· · · · · · · · · · · · · · · · · · ·	is marked, do not fill in below.)				
State (i.e. country) of nationality:	State (i.e. country) of residence:				
Hungary	Hungary				
This person is applicant for the purposes of: all designated the United States the United States					
Name and address: (Family name followed by given name; for a legal entil The address must include postal code and name of country. The country of the Box is the applicant's State (i.e. country) of residence if no State of residence	e address indicated in this				
SERES, Péter	applicant only				
Budapest, Rädda Barnen u. 6., H–1153	X applicant and inventor				
Hungary	inventor only (If this check-box is marked, do not fill in below.)				
State (i.e. country) of nationality: Hungary	State (i.e. country) of residence: Hungary				
This person is applicant all designated all designated for the purposes of:	States except the United States the States indicated in				
X Further applicants and/or (further) inventors are indicated on	another continuation sheet.				

Sheet	No		ı	4				
211001	110.	٠		٠	٠	•	٠	

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTORS				
If none of the following sub-boxes is used	, this sheet is not to be inc	luded in the request.		
Name and address: (Family name followed by given name; for a legal et The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of reside	f the address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)		
State (i.e. country) of nationality: Hungary	State (i.e. country) of r	esidence:		
This person is applicant all designated all designate.	d States except th	e United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if 10 State of residen	the address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)		
State (i.e. country) of nationality:	State (i.e. country) of re	sidence:		
This person is applicant all designated all designated for the purposes of:		United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name: for a legal en. The address must include postal code and name of country. The country of Box is the applicant's State (i.e. country) of residence if no State of residence is the applicant of the country of residence if no State of residence is the applicant of the country of residence if no State of residence is the applicant of the country of residence is no State of residence is the applicant of the country of	nity, full official designation the address indicated in this ce is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)		
State (i.e. country) of nationality:	State (i.e. country) of re	sidence:		
This person is applicant all designated all designated for the purposes of:		United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of to Box is the applicant's State (i.e. country) of residence if no State of residenc	he address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)		
State (i.e. country) of nationality:	State (i.e. country) of res	idence:		
This person is applicant all designated all designated or the purposes of:		United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Bo	x No.V	DESIGNATION OF STATES			
Th	e follo	wing designations are hereby made under Rule 4.9(a) (mark	the ap	plicable check-boxes: at least one must be marked):
1 _		Patent			
1_	•		- T S	I een	tho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda
_ ~	SI AI	ZW Zimbabwe, and any other State which is a Con	tracti	ng St	ate of the Harare Protocol and of the PCT
D	▼ EA	Eurasian Patent: AM Armenia, AZ Azerbaijan	BY	Bela	rus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic o
		Moldova, RU Russian Federation, TJ Tajikistan, T	M T	urkme	enistan, and any other State which is a Contracting State
Σ	EP	of the Eurasian Patent: AT Austria RF Policium CH	-d I	T C:	tzerland and Liechtenstein, DE Germany, DK Denmark
_	עב עב	ES Spain, FI Finland, FR France, GB United Kingdo	om. G	R Gr	eece, IE Ireland, IT Italy, LUL uxembourg, MC Monaco
		NL Netherlands, PT Portugal, SE Sweden, and an	y oth	er Sta	tte which is a Contracting State of the European Patent
_	7 04	Convention and of the PCT		٠.	B
D	S. OA	GA Gabon, GN Guinea, ML Mali, MR Mauritania	LTAL A NE	Niger	Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon. SN Senegal, TD Chad, TG Togo, and any other State
	•	which is a member State of OAPI and a Contracting	State	e of th	e PCT (if other kind of protection or treatment desired, specify
		on dotted line)	• • • •	• • • •	
		Patent (if other kind of protection or treatment desired	, spec	cify or	n dotted line):
Σ		Albania	\boxtimes	LT	Lithuania
⋈		I Armenia	\boxtimes	LU	Luxembourg
×		Austria	\boxtimes	LV	Latvia
\ ⊠		Australia	\boxtimes	MD	Republic of Moldova
		Azerbaijan	X		Madagascar
×		Bosnia and Herzegovina	\boxtimes	MK	The former Yugoslav Republic of Macedonia
×		Barbados			
Ø		Bulgaria	\boxtimes		Mongolia
		Brazil	\boxtimes	MV	Malawi
X		Belarus	Ø		Mexico
X		Canada	\boxtimes		Norway
X		and LI Switzerland and Liechtenstein	\boxtimes		New Zealand
X		China	Ø		Poland
		Cuba	\boxtimes		Portugal
X		Czech Republic	\boxtimes		Romania
X		Germany			Russian Federation
X X		Denmark	Ø		Sudan
×	ES	Estonia Spain Spai		SE	Sweden
Ø ⊠	FI	Finland		SG	Singapore
X		United Kingdom	X	SI	Slovakia
X		Georgia			
Ø		Ghana			Sierra Leone Tajikistan
×		Gambia	⊠ ⊠	TJ TM	Turkmenistan
Ø		Guinea-Bissau	X	TR	Turkey
ö	HU	Hungary	X	TT	Trinidad and Tobago
×	ID	Indonesia			Ukraine
X	\mathbf{n}	Israel			Uganda
X	IS	Iceland	\boxtimes	US	United States of America
Ø	JP	Japan		00	
×	KE	Kenya	\boxtimes	117.	Uzbekistan
X	KG	Kyrgyzstan			Viet Nam
X	KP	Democratic People's Republic of Korea	\boxtimes	YU	
•			Ø		Zimbabwe
\boxtimes	KR	Republic of Korea	_		
X		Kazakhstan	Chec	k-box	tes reserved for designating States (for the purposes of patent) which have become party to the PCT after
X	LC	Saint Lucia	issua	nce o	f this sheet:
	LK	Sri Lanka		 -	
		Liberia	$\bar{\Box}$		
X		Lesotho	$\overline{\Box}$		

In addition to the designations made above, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except the designation(s) of

The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Sheet No.		1	6		
DITECT 140.		٠			

Box No. VI PRIORITY CLAIM Further priority claims are indicated in the Supplemental Box							
The priority of the following earlier application(s) is hereby claimed:							
Country (in which, or for which, the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or international application)				
item (1)	-	-	11				
item (2)							
item (3)		·					
Mark the following check-box if the certified copy of the earlier application is to be issued by the Office which for the purposes of the present international application is the receiving Office (a fee may be required): The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):							
Box No. VII INTERNATIO	NAL SEARCHING AUTHORITY						
Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): Earlier search Fill in where a search (international, international-type or other) by the International Searching Authority has already been carried out or requested and the Authority is now requested to base the international search, to the extent possible, on the results of that earlier search. Identify such search or request either by reference to the relevant application (or the translation thereof) or by reference to the search request: Country (or regional Office): Date (day/month/year): Number:							
Box No. VIII CHECK LIST							
This international application contains the following number of sheets: 1. request : 6 sheets 2. description : 38 sheets 3. claims : 10 sheets 4. abstract : 1 sheets 5. drawings : sheets Total : 55 sheets This international application is accompanied by the item(s) marked below: 1. separate signed power of attorney 5. fee calculation sheet 6. separate indications concerning deposited microorganisms 7. nucleotide and/or amino acid sequence listing (diskette) 4. priority document(s) identified in Box No. VI as item(s):							
Figure No of the c	lrawings (if any) should accompany	the abstract when it is published.					
Box No. IX SIGNATURE O	F APPLICANT OR AGENT		•				
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). KARÁCSONYI, Béla							
Patent Attorney			İ				
	.	-					
Date of actual receipt of the p international application:	For receiving Off urported	lice use only	2. Drawings:				
 Corrected date of actual receiptimely received papers or draw the purported international appropriate 	vings completing		received:				
4. Date of timely receipt of the recorrections under PCT Article	: 11(2):		not received:				
International Searching Autho specified by the applicant:	ISA /	Transmittal of search copy dela until search fee is paid	yed				
Date of receipt of the record copy by the International Bureau:	Date of receipt of the record copy by the International Bureau use only Date of receipt of the record copy by the International Bureau:						

FEE CALCULATION SHEET Annex to th Request

international application No.		

For receiving Office use only

Applicant's or agent's	
file reference 13199 KB	Date stamp of the receiving Office
Applicant EGIS GYÓGYSZERGYÁR RT., Budapest, Keresztü Hungary	úri út 30-38., H-1106
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	F 14000 T
2. SEARCH FEE DE International search to be carried out by EPO (1] two or more International Searching Authorities are competent in relational implication, indicate the name of the Authority which is chosen to carry out the	
3. INTERNATIONAL FEE	
Basic Fee The international application contains 55 sheets.	
first 30 sheets	
remaining sheets additional amount Add amounts entered at b, and b, and enter total at B CHF.	1025 B
Designation Fees The international application contains designations 11 x 150 =	1650 D
number of designation fees amount of designation fee payable (maximum 11)	
Add amounts entered at B and D and enter total at I	the Line
4. FEE FOR PRIORITY DOCUMENT	P
5. TOTAL FEES PAYABLE	
Add amounts entered at T, S, I and P, and enter total in the TOTAL	TOTAL
The designation fees are not paid at this time.	
MODE OF PAYMENT	
authorization to charge	
deposit account (see below)	coupons
cheque cash	other (specify):
postal money order revenue stamps	 L
DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment n	nay not be available at all receiving Offices)
The RO/ is hereby authorized to charge the total fees	indicated above to my deposit account.
is hereby authorized to charge any deficien deposit account.	cy or credit any overpayment in the total fees indicated above to my
is hereby authorized to charge the fee for problem Bureau of WIPO to my deposit account.	eparation and transmittal of the priority document to the International
Deposit Account Number Date (day/month/year)	Signature

From the INTERNATIONAL SEARCHING AUTHORITY

To: **ADVOPATENT**

PCT

NOTIFICATION OF TRANSMITTAL OF

Office of Patent and Trademark Attorneys H-1251 Budapest	THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION				
HUNGARY	(PCT Rule 44.1)				
	Date of mailing (day/month/year) 12/02/1999				
Applicant's or agent's file reference					
13199 KB	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	International filing date				
PCT/HU 98/00054	(day/month/year) 05/06/1998				
Applicant					
EGIS GYOGYSZERGYAR RT. et al.	· · · · · · · · · · · · · · · · · · ·				
1. X The applicant is hereby notified that the International Searce	b Donot has been established and in transmitted because				
. Filing of amendments and statement under Article 19	in Heport has been established and is transmitted herewith.				
. Timing of amendments and statement under Article 13					

1.	X	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, toamend the claims of the International Application (see Rule 46):					
		When?		or filing such amendments is normally 2 months from the date of transmittal of the earch Report; however, for more details, see the notes on the accompanying sheet.			
		Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35			
		For mor	e detailed instru	uctions, see the notes on the accompanying sheet.			
2.				otified that no International Search Report will be established and that the declaration under ect is transmitted herewith.			
				1			
3.		With reg	ard to the prote	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
				with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of boththe protest and the decision thereon to the designated Offices.			
		no	decision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is made.			
4.	Furti	her action	n(s): The appli	cant is reminded of the following:			
	Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.						
	Withi wis	in 19 mo n shes to po	oths from the pricestpone the entry	ority date, a demand for international preliminary examination must be filed if the applicant into the national phase until 30 months from the priority date (in some Offices even later).			

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

priority date or could not be elected because they are not bound by Chapter II.

Authorized officer

John De Bruijn

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 13199 KB		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/HU 98/00054	05/06/1998	_
Applicant		
EGIS GYOGYSZERGYAR RI	C. et al.	
	nas been prepared by this International Searching Aut being transmitted to the International Bureau.	nority and is transmitted to the applicant
	consists of a total of sheets. y a copy of each priorart document cited in this report	
Certain claims were for	und unsearchable (see Box I).	The Control of the Co
2. Unity of invention is la	cking(see Box II).	Super-
	ation contains disclosure of a nucleotide and/or amin	o acid sequence listing and the
	filed with the international application.	
	furnished by the applicant separately from the inte	rnational application,
	but not accompanied by a statement to the matter going beyond the disclosure in the	e effect that it did not include international application as filed.
	Transcribed by this Authority	
 With regard to the title, χ 	the text is approved as submitted by the applicant	•
	the text has been established by this Authority to re	
		•
5. With regard to the abstract,	1	
· <u>[X</u>	the text is approved as submitted by the applicant	
<u></u>	the text has been established, according to Rule 3. Box III. The applicant may, within one month from Search Report, submit comments to this Authority.	the date of mailing of this International
6. The figure of the drawings to	he publiched with the abstract is	
Figure No	as suggested by the applicant.	None of the figures.
	because the applicant failed to suggest a figure.	
	because this figure better characterizes the inventi	on.
	_	

INTERNATIONAL SEARCH REPORT



International	Application No
PCT/HU	98/00054

			<u></u>
A. CLASS IPC 6	CO7D237/22 CO7D237/20		
According t	to International Patent Classification (IPC) or to both national clas	ssification and IPC	
	SEARCHED		
Minimum de	ocumentation searched (classification system followed by classi	fication symbols)	
IPC 6	C07D		
Documenta	ation searched other than minimum documentation to the extent t	hat such documents are included in the fields se	arched
Electronic	data base consulted during the international search (name of dal	a base and, where practical, search terms used	<u> </u>
		•	
	•		
			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	e relevant passages	Relevant to claim No. 4.5
Α	GB 2 262 526 A (EGIS GYOGYSZER	CVAR)	1,2
A	23 June 1993		. !
	cited in the application		
	see claims 1,11		
A ·	EP 0 054 946 A (CASSELLA) 30 J	une 1982	1
	see claims; examples 1-7		
		•	
·			
			**.
			•
	ı		
			•
			<u> </u>
<u> </u>	ther documents are listed in the continuation of box C.	Patent family members are listed	n annex.
° Special ca	ategories of cited documents :	"T" later document published after the inte	
	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	
"E" earlier of filling of	document but published on or after the international date	"X" document of particular relevance; the c	
"L" docume	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	cannot be considered novel or cannot involve an inventive step when the doc	cument is taken alone
citatio	on or other special reason (as specified)	"Y" document of particular relevance; the cl cannot be considered to involve an inv	entive step when the
other	nent referring to an oral disclosure, use, exhibition or means	document is combined with one or mo ments, such combination being obviou in the art.	
	ent published prior to the international filing date but han the priority date claimed	"&" document member of the same patent f	amily
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report
3	February 1999	12/02/1999	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Enemosis 1	
	Fax: (+31-70) 340-3016	Francois, J	

INTERNATIONAL SEARCH REPORT

oformation on patent family members

International Application No PCT/HU 98/00054

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
GB 2262526	Α	23-06-1993	HU	214320 B	02-03-1998	
db 2202320 7	Α.	25 00 1555	AT	403282 B	29-12-1997	
			AT	253592 A	15-05-1997	
			AU	652304 B	18-08-1994	
			AU	3031792 A	24-06-1993	
			BE	1006223 A	14-06-1994	
			CA	2085796 A	21-06-1993	
•			CH	684754 A	15-12-1994	
			CN	1088578 A	29-06-1994	
			DE	4243381 A	24-06-1993	
•			DK	152892 A	21-06-1993	
			ES	2108595 A	16-12-1997	
	•		FI	925807 A	21-06-1993	
			FR	2685329 A	25-06-1993	
			GR	92100570 A,B	31-08-1993	
			HU	9500265 A	28-09-1995	
			JP	5255276 A	05-10-1993	
			NL	9202210 A	16-07-1993	, :
			PL	297070 A	07-03-1994	
			US	5395934 A	07-03-1995	1
			ZA	9209903 A	24-06-1993	•
EP 054946 A	A	30-06-1982	DE	3048487 A	29-07-1982	
			AT	8991 T	15-09-1984	
			AU	544386 B	23-05-1985	
			AU	7870481 A	01-07-1982	
			CA	1173033 A	21-08-1984	
•			CS	236683 B	15-05-1985	
			CS	236665 B	15-05-1985	
			DD	202013 A	24-08-1983	
			DK	542881 A.B.	23-06-1982	
			DK FI	542881 A,B, 813941 A.B.	23-06-1982 23-06-1982	
				542881 A,B, 813941 A,B, 81382 A		
			FΙ	813941 A,B,	23-06-1982	
			FI GR HK	813941 A,B, 81382 A 51485 A	23-06-1982 11-12-1984 12-07-1985	
			FI GR	813941 A,B, 81382 A	23-06-1982 11-12-1984	
	·		FI GR HK IE	813941 A,B, 81382 A 51485 A 51985 B 57128677 A	23-06-1982 11-12-1984 12-07-1985 13-05-1987 10-08-1982	
	ı		FI GR HK IE JP PT	813941 A,B, 81382 A 51485 A 51985 B 57128677 A 74185 B	23-06-1982 11-12-1984 12-07-1985 13-05-1987 10-08-1982 24-03-1987	
	į		FI GR HK IE JP PT SU	813941 A,B, 81382 A 51485 A 51985 B 57128677 A 74185 B 1170970 A	23-06-1982 11-12-1984 12-07-1985 13-05-1987 10-08-1982 24-03-1987 30-07-1985	•
	ı		FI GR HK IE JP PT	813941 A,B, 81382 A 51485 A 51985 B 57128677 A 74185 B	23-06-1982 11-12-1984 12-07-1985 13-05-1987 10-08-1982 24-03-1987	•

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY To: ADVOPATENT Office of Patent and Trademark Attorneys WRITTEN OPINION P.O. Box 11 H-1251 Budapest (PCT Rule 66) HONGRIE 2000. 07 17. Date of mailing (day/month/year) within 3 month(s) **REPLY DUE** Applicant's or agent's file reference from the above date of mailing 13199 KB Priority date (day/month/year) International filing date (day/month/year) International application No. 05/06/1998 05/06/1998 PCT/HU98/00054 International Patent Classification (IPC) or both national classification and IPC C07D237/22 Applicant EGIS GYOGYSZERGYAR RT. et al. 1. This written opinion is the first drawn up by this International Preliminary Examining Authority. This opinion contains indications relating to the following items: Basis of the opinion П ☐ Priority □ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Ш IV □ Lack of unity of invention Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Certain document cited VI ☐ Certain defects in the international application VII Certain observations on the international application The applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, When? request this Authority to grant an extension, see Rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also: For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 05/10/2000.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer / Examiner

Fanni, S

Formalities officer (incl. extension of time limits)

Ambroa, J.R.

Telephone No. +49 89 2399 8012



	Basis of t	h opinion					
 This opinion has been drawn on the basis of (substitute sheets which have been furnished to the receiving in response to an invitation under Article 14 are referred to in this opinion as "originally filed".): 							
	Description	escription, pages:					
	1-38		as originally filed				
	Claims, N	o.:					
	1-18		as originally filed	d .			
2.	The amen	dments have	resulted in the c	cancellation of:			
		escription,	pages: Nos.:				
	-	rawings,	sheets:				
3.	This opini	on has been	established as if nd the disclosure	f (some of) the amendments had not been made, since they have been e as filed (Rule 70.2(c)):			
4.	Additiona	observation	s, if necessary:				
V.	Reasone applicabi	d statement ility; citation	under Rule 66.2 s and explanation	2(a)(ii) with regard to novelty, inventive step or industrial ions supporting such statement			
1.	Statemen	t					
	Novelty (N)	Claims	1-18			
	Inventive	step (IS)	Claims	1-18			
	Industrial	applicability	(IA) Claims				

see separate sheet

2. Citations and explanations

ITEM V

Reference is made to the following documents:

D1: GB-A-2 262 526 cited in the application

D2: EP-A-0 054 946

NOVELTY

The subject matter of present claims 1-11 is novel over D1 mainly on account of the assembling of present compounds of formulae II (or VII) and VI during the synthesis of I, rather than compounds of formulae III and IV according to claim 11 from D1.

The subject matter of present claims 1-11 is novel over D2 mainly on account of the different regiochemistry of the 3(2H)-pyridazinone moieties involved.

Neither D1 nor D2 disclose 3-chloro substituted pyridazine derivatives. The 3, 5-trichloropyridazine derivative of formula IV disclosed by claim 14 is therefore novel over D1 and D2.

The subject matter of present claims 15-18 is novel over D1 mainly on account of the amino residues in position 3 of the 3(2H)-pyridazinone moieties, none of said residues having been disclosed by D1 (see the definition of A in formula I, claim 1 of D1).

The subject matter of present claims 15-18 is novel over D2, mainly on account of the different regiochemistry of the 3(2H)-pyridazinone moieties, the amino substituents being in position 5 in the compounds disclosed by D2. Furthermore, none of the present amino residues are disclosed by D2 (compare for instance, formulae II and III from present claims 15-18 with formulae I, IV and VI from claims 1 and 7 from D2).

The present subject matter therefore fulfil the requirement of article 33(2) PCT.

INVENTIVE STEP

D1 is considered to be the closest prior art and discloses 3(2H)-Pyridazinone

derivatives, including compounds according to the present formula I, and their medical application.

The problem underlying the present subject matters is considered to be the provision of an improved method for the synthesis of compounds according to formula I.

The problem has been solved, as shown by the comparison of present examples 1-5 with examples 1-7 from D1.

As stated in the description, the advantages of the present process over the one disclosed by D1 mainly reside in the higher regioselectivity, which is induced in the first step of the process, and the consequent possible separation of the regioisomers in an earlier and simpler purification step. On the other hand, there are no information in the prior art suggesting that the first step of the present process (namely the amination of 3, 4, 5-chloropyridazine) would lead to a general improving of the regioselectivity with respect to the process disclosed by D1.

Accordingly, a process involving a synthetic step which leads to compound IV by amination of 3, 4, 5-chloropyridazine could in principle be considered as inventive. This is however the case only for variant a_4 from present claim 1 and dependent claims 11-13 which refer to it.

For the variants which do not include the above mentioned synthetic step, namely variants a_1 - a_3 and b_1 - b_4 described in claim 1 as well as the dependent claims that refer to them, an inventive step cannot be acknowledged for the following reasons:

- i) variants a₁-a₃ and b₃-b₄ describe a known method for the synthesis of a tertiary amine by alkylation of a secondary amine via a nucleophilic substitution reaction;
- ii) variants a_2 - a_3 and b_4 describe known methods for the conversion of an ester or ether group into a better leaving group,
- iii) variants a_3 and b_2 - b_4 describe a known method for the conversion of 3-pyridazine into 3-pyridazone derivatives;
- iv) variants b₁-b₄ describe known methods for the deprotection of a secondary amine; All the above methods represent standard synthetic procedures or methods known as such. Therefore they represent merely some of the several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

Thus the subject matter of claim 1, as well as the subject matter of dependent claims 2-10, which all refer to one of the variants a_1 - a_3 , do not fulfil the requirements of Article 33(3) PCT. Moreover, a unity of invention objection could be raised regarding the different variants according to the above mentioned claims.

An inventive step could be therefore acknowledged only for the subject matter of claims 11-13 (Article 33(3)PCT).

The compounds claimed in claims 14-18 are involved in at least some of the process described in claims 1-10. Said process being considered neither novel nor inventive, an inventive step could not be acknowledged for the subject matter of claims 14-18 (Article 33(3)PCT).

It is also pointed out that properties establishing an inventive step should extend to the whole of the scope claimed. Generic and open-ended expressions, such us "aryl", "alkanoyl", "aroyl" and "leaving group" are certainly not suited for this purpose, since it is inherently unlikely that substantially all of the embodiments claimed may be made or performed, i.e. provide compounds with the required properties.

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

ADVOPATENT Office of Patent and Trademark Attomeys P.O. Box 11 H-1251 Budapest **HONGRIE**

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** (PCT Rule 71.1)

Date of mailing (day/month/year)

2 4. 08. 00

Applicant's or agent's file reference 13199 KB

International application No.

PCT/HU98/00054

International filing date (day/month/year) 05/06/1998

Priority date (day/month/year) 05/06/1998

IMPORTANT NOTIFICATION

Applicant

EGIS GYOGYSZERGYAR RT. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.

- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 13199 KB	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)	
PCT/HU98/00054	05/06/1998	05/06/1998	
International Patent Classification (IPC) or C07D237/22	national classification and IPC		
Applicant			
EGIS GYOGYSZERGYAR RT. et	al.	7 (4) ************************************	
This international preliminary exa and is transmitted to the applican	nmination report has been prepared but according to Article 36.	by this International Preliminary Examining Authority	
2. This REPORT consists of a total	of 7 sheets, including this cover she	eet.	
been amended and are the b	pasis for this report and/or sheets co n 607 of the Administrative Instruction	description, claims and/or drawings which have ntaining rectifications made before this Authority ns under the PCT).	
3. This report contains indications r	relating to the following items:	·	
II □ Priority			
III 🗆 Non-establishment o	of opinion with regard to novelty, inve	ntive step and industrial applicability	
Ⅳ ☐ Lack of unity of inve	ntion		
V 🖾 Reasoned statemen citations and explan	it under Article 35(2) with regard to na ations suporting such statement	ovelty, inventive step or industrial applicability;	
VI Certain documents			
4	e international application	A.	
VIII Certain observations	s on the international application		
Date of submission of the demand	Date of co	ompletion of this report 2 4. 08. 00	
Name and mailing address of the internat preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52: Fax: +49 89 2399 - 4465	Fanni, 9		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/HU98/00054

l.	Basis	of the	report
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Claims, No.:

1-18

This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):			
Description, pages:	:		
1-38	s originally filed		

2. The amendments have resulted in the cancellation of:

as originally filed

the description,	pages:
the claims,	Nos.:
the drawings,	sheets:

- 3.
 This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):
- 4. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)	 Claims	1-10
Inventive step (IS)	Claims Claims	
Industrial applicability (IA)	Claims Claims	1-18

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/HU98/00054

2. Citations and explanations

see separate sheet

ITEM V

Reference is made to the following documents:

D1: GB-A-2 262 526 cited in the application

D2: EP-A-0 054 946

NOVELTY

The subject matter of present claims 1-11 is novel over D1 mainly on account of the assembling of present compounds of formulae II (or VII) and VI during the synthesis of I, rather than compounds of formulae III and IV according to claim 11 from D1.

The subject matter of present claims 1-11 is novel over D2 mainly on account of the different regiochemistry of the 3(2H)-pyridazinone moieties involved.

Neither D1 nor D2 disclose 3-chloro substituted pyridazine derivatives. The 3, 5-trichloropyridazine derivative of formula IV disclosed by claim 14 is therefore novel over D1 and D2.

The subject matter of present claims 15-18 is novel over D1 mainly on account of the amino residues in position 3 of the 3(2H)-pyridazinone moieties, none of said residues having been disclosed by D1 (see the definition of A in formula I, claim 1 of D1).

The subject matter of present claims 15-18 is novel over D2, mainly on account of the different regiochemistry of the 3(2H)-pyridazinone moieties, the amino substituents being in position 5 in the compounds disclosed by D2. Furthermore, none of the present amino residues are disclosed by D2 (compare for instance, formulae II and III from present claims 15-18 with formulae I, IV and VI from claims 1 and 7 from D2).

The present subject matter therefore fulfil the requirement of article 33(2) PCT.

INVENTIVE STEP

D1 is considered to be the closest prior art and discloses 3(2H)-Pyridazinone

derivatives, including compounds according to the present formula I, and their medical application.

The problem underlying the present subject matters is considered to be the provision of an improved method for the synthesis of compounds according to formula I.

The problem has been solved, as shown by the comparison of present examples 1-5 with examples 1-7 from D1.

As stated in the description, the advantages of the present process over the one disclosed by D1 mainly reside in the higher regioselectivity, which is induced in the first step of the process, and the consequent possible separation of the regioisomers in an earlier and simpler purification step. On the other hand, there are no information in the prior art suggesting that the first step of the present process (namely the amination of 3, 4, 5-chloropyridazine) would lead to a general improving of the regioselectivity with respect to the process disclosed by D1.

Accordingly, a process involving a synthetic step which leads to compound IV by amination of 3, 4, 5-chloropyridazine could in principle be considered as inventive. This is however the case only for variant a4 from present claim 1 and dependent claims 11-13 which refer to it.

For the variants which do not include the above mentioned synthetic step, namely variants a1-a3 and b1-b4 described in claim 1 as well as the dependent claims that refer to them, an inventive step cannot be acknowledged for the following reasons: i) variants a1-a3 and b3-b4 describe a known method for the synthesis of a tertiary amine by alkylation of a secondary amine via a nucleophilic substitution reaction (see, for example, claim 7 from D2. According to claim 7 and the examples of D2, the chlorine atom in position 4 is not affected during the nucleophilic reaction between compounds of formula IV and V according to claim 7 of D2. Furthermore, the equivalence in reactivity of the 4-chloro and the 5-chloro positions in 3-pyridazinones towards nucleophilic substitutions is disclosed by D1 as explained on page 3 of the present application);

- ii) variants a2-a3 and b4 describe known methods for the conversion of an ester or ether group into a better leaving group,
- iii) variants a3 and b2-b4 describe a known method for the conversion of 3-pyridazine into 3-pyridazone derivatives;

iv) variants b1-b4 describe known methods for the deprotection of a secondary amine (the hydrolysis of secondary amides in acidic medium is a well known process, see for instance J. March, "Advance Organic Chemistry", 4th Edition, Wiley Ed., chapter 0-11, page 383);

All the above methods represent standard synthetic procedures or methods known as such. Therefore they represent merely some of the several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed. The arguments of the applicant that compounds of formula III are easily purified from their (undesired) 5isomer, is of relevance only when the compound IV obtained from the reaction of V with 3-amino-1-propanol is used in the successive step without purification from the (undesired) IVa isomer. This synthetic strategy can be however considered covered only by variant a4.

Thus the subject matter of claim 1, as well as the subject matter of dependent claims 2-10, which all refer to one of the variants a1-a3, do not fulfil the requirements of Article 33(3) PCT.

An inventive step could be therefore acknowledged only for the subject matter of claims 11-13 (Article 33(3)PCT).

The compounds claimed in claims 14-18 are all considered to be essential features of the process described in variant a4 and claims 11-13. Said process being considered novel and inventive, an inventive step could be acknowledged for the subject matter of claims 14-18 (Article 33(3)PCT).

Since only the present variant a4 is considered as inventive, the question of unity of invention is not raised here, all the other variants claimed being not considered solutions for the given problem. It is however pointed out that if one or more of the claimed variants will be rendered inventive, the question of unity will have to be considered. It is furthermore pointed out that properties establishing an inventive step should extend to the whole of the scope claimed. Generic and open-ended expressions, such as "aryl", "alkanoyl", "aroyl" and "leaving group" are certainly not suited for this purpose, since it is inherently unlikely that substantially all of the

INTERNATIONAL PRELIMINARY International application No. PCT/HU98/00054 EXAMINATION REPORT - SEPARATE SHEET

embodiments claimed may be made or performed, i.e. provide compounds with the required properties.

In re the Application of:

EGIS Gyógyszergyár Rt.

International Appln. No.:

PCT/HU98/00054

International Filing Date:

05/06/1998

Title:

PROCESS FOR THE PREPARATION OF A

3(2H)-PYRIDAZINONE-4-SUBSTITUTED

AMINO-5-CHLORO-DERIVATIVE

Agent's file reference:

13199 KB/NK

Authorized Officer:

FANNI, S., Esq.

To:

EUROPEAN PATENT OFFICE

By fax

D-80298 Munich

Dear Sirs,

This response is to the Written Opinion of the International Preliminary Examining Authority mailed on 17. 04. 2000 having a reply due date of 17 July 2000 and extended until 17. August 2000 (hereinafter "Written Opinion").

I.

According to the Written Opinion reaction variants a_1 - a_3 and b_3 - b_4 are methods known <u>per se</u> for the synthesis of tertiary amines by the alkylation of secondary amines.

1) Reactions a₁-a₃

It is true that tertiary amines can be prepared by the alkylation of secondary amines. However, this is only relevant if the reaction is carried out by using pyridazinones of the general Formula (1) in which R is other than hydrogen. In the contrary case there is always a high probability of self-alkylation reaction and the formation of derivatives of two different types:

For 4-(ω -chloro-alkylamino)-pyridazinone-2-one derivatives only one single example is disclosed in prior art as an illustration of reactions of this type. This is Example 41 on page 29 of patent D1.

In this case the N-2 nitrogen of the pyridazinone ring bears a methyl substituent and therefore this nitrogen atom is protected against alkylation reactions. We

have carried out the reaction under the conditions disclosed in Example 41 of document D1 by performing the reaction in the melt at 120°C. It has been found that if the nitrogen atom N-2 bears a hydrogen atom, self-alkylation takes place on the N-2 nitrogen atom and a number of by-products are formed. A reaction mixture is obtained which can be purified only by substantial difficulties and the yields are drastically decreased. Thus e.g. a compound of the following Formula can be formed which is not the end-product and the reaction does not necessarily stop at the dimer stage but can be continued to form a trimer derivative which finally leads to a polymer resin.

The aforesaid proves that the process described in document D1 is unsuitable for the preparation of our compound of the Formula I. This is further substantiated by the fact that in document D1 by the above method no compound of the general Formula I, in which R₁ stands for hydrogen, has been prepared by reacting a compound of the general Formula V with a compound of the general Formula VII.

In the present patent application as an example this reaction has been disclosed. We have succeeded in suppressing the self-alkylation reaction and obtaining the tertiary amine selectively with excellent yields. It could not be aforeseen that the reaction could be carried out in such a selective manner because according to prior art the N-2 nitrogen can be easily alkylated.

Our recognition is so much the more surprising as it has been disclosed in prior art [e.g. Cho Su-Dong at al: J. Het. Chem., <u>35</u>, 3, 601-606 (1998)] that 4,5-dichloro-pyridazine-3-one can be alkylated on the N-2 nitrogen atom of the

pyridazine ring with benzyl chloride in a dipolar aprotic solvent in the presence of potassium carbonate at 50°C with benzyl chloride with a yield of 92 %.

It is also known [T. Nakagome et al: Chem. Pharm. Bull. (Tokyo), 14, 1090 (1966)] that alkylation of pyridazine-3-one-derivatives takes place on the N-1 introgen atom of the pyridazine ring under formation of a quaternary salt.

Thus it is surprising and unaforeseen that according to the present invention substitution of the N-2 nitrogen atom of the pyridazine ring and quaternerisation of N-1 nitrogen atom of the pyridazine ring could be avoided and the desired end-product can be prepared by reacting compounds of the general Formulae II and VI in a selective manner with high yields.

2) Reaction variants b₃ and b₄

According to these reaction variants a compound of the general Formula VII is reacted with a compound of the Formula VI to give a compound of the Formula VIII.

It is surprising that the secondary amine of the Formula VI reacts selectively only with the carbon atom bearing the X leaving group while the chlorine atom in position 3 of the pyridazine ring is not substituted. There are several examples in prior art which would lead the skilled out worker to the presumption that the chlorine atom in position 3 would be substituted. Thus reference is made to D. K. Chesney et al [J. Het. Chem., 11, 167 (1974)] wherein it is described that if 4-amino-3,5-dichloro-pyridazine-3-one is reacted

with methyl hydrazine substitution takes place in position 3 of the pyridazine ring.

il.

The Examiner states that reaction variants a_2 - a_3 and b_4 are known methods for the transformation of an ester group into a more suitable leaving group.

1) Reaction variants a₂ and a₃

In the case of the starting materials of the general Formula III of the present patent application it could not be aforeseen that two leaving groups (one on the nitrogen and one on the oxygen) can be removed simultaneously in such a manner that at the same time the new leaving group X is formed at the end of the chain. It is highly surprising that the reaction can be carried out with good yields.

It is namely known from prior art [Ogawa et al: Carbohydr. Res., <u>194</u>, 115-124 (1989)] that on reacting the following N,O-diacetyl derivative with hydrogen bromide at 80°C for 3 days the corresponding N-acetyl-bromo derivative is obtained with the yield of 94 %.

It can be seen that in a reaction of the similar type the N-acetyl group remained unchanged while simultaneously the O-acetyl group was selectively converted into the bromo derivative.

Taking into consideration the teaching of prior art it is surprising and unaforeseen that according to the present invention a compound of the general Formula II can be prepared from a compound of the general Formula III in one step with high yields.

2) Reaction variant b4

According to this process the compound of the Formula VIII can be prepared from the compound of the Formula IV surprisingly in a uniform manner. This is surprising and unaforeseen because it is known form prior art that bromopropyl-amino derivatives are easily converted under heating into azetidinium bromides. However, it has been surprisingly found in the case of the present invention that the compound of the Formula VII is obtained in a selective manner.

111.

The Examiner has stated that reaction variants a_2 and b_2 - b_4 relate to well known methods for the conversion of a 3-pyridazine into a 3-pyradazinone.

1) Reaction variant a2

It is known that re-conversion of 1-halogen-pyridazine into 3-pyridazinone is possible. However, even in such a simple case as 3,4,5-trichloro-pyridazine the corresponding pyridazinone can be obtained in acetic acid only with a yield of 34 % [T. Kuraishi: Chem. Pharm. Bull. (Tokyo), <u>5</u>, 376 (1957)].

It has been surprisingly found that the reaction can be carried out with such a high yield.

In the case of the present patent application the formation of a N,O-diacyl-derivative of the general Formula III could not be aforeseen because when using the other regioisomer under similar reaction conditions only the O-acyl derivative is formed. In case of the desired 4-substituted isomer the importance of the diacyl derivative obtained is increased by the fact that the diacyl derivative is an extremely well crystallizable compound and can be separated from the undesired 5-isomer (this is a mono-O-acyl derivative) by simple recrystallization at this stage. This recognition is completely unexpectable in view of the teaching of prior art.

2) Reaction variants b₂-b₄

In view of the aforesaid it could not be aforeseen that in course of transformation of pyridazine into pyridazinone the N-acetyl derivative is formed.

IV.

The Examiner states that reaction variants b_1 - b_4 are known methods for desacetylation of a N-acetyl compound.

While prior art contains numerous examples for the desacetylation of secondary amines, when carrying out the reaction with 48 % aqueous hydrogen as performed in the case of the present invention, according to prior art desacetylation does not always take place. It is namely disclosed in prior art [e.g. Ogawa et al: Carbohydr. Res., 194, 115-124 (1989)] that on reacting a N-acetyl-derivative with hydrogen bromide at 80°C for 3 days the N-acetyl group remained practically unchanged and could not be split off.

On the other hand it has been found in a surprising way that according to the process of the present invention desacetylation with hydrogen bromide actually takes place, contrary to the disclosure of the prior art.

٧.

The best form of realization of the process of the present invention is shown in the following reaction scheme.

It is to be emphasized that intermediates of the Formulae IV, III (R is e.g. acetyl) and II (X is e.g. bromine) are new compounds, never described in prior art. These intermediates are inventive because they can be converted into the pharmaceutically active end-product of the Formula I with such excellent yields and in such a preferably way which could not be aforeseen in prior art.

As a summary it can be stated that the present invention is both novel and inventive.

A favourable reconsideration of the Written Opinion is respectfully requested.

Budapest, August 9, 2000

Respectfully submitted

Béla Karácsonyi Patent Attorney for Applicant